

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

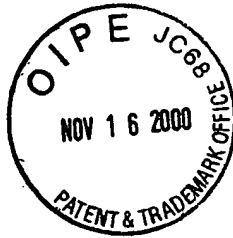
In re Patent Application of

James D. MARTIN et al

Serial No. 09/363,013

Filed: July 29, 1999

For: PREMIXED LIQUID MONOPROPELLANT
SOLUTIONS AND MIXTURES



Atty Ref.: 2920-223

Group: 3641

Examiner: G. Sanchez

12 Power of Attorney
11/20/00
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[Signature]
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November 16, 2000 TO 3600 MAIL ROOM

Assistant Commissioner for Patents
Washington, DC 20231

**SUBMISSION OF EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY
AND EXCLUSIVE PROSECUTION HEREAFTER BY ASSIGNEE
UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

Sir:

Enclosed herewith is the Exclusive Substitute Power Of Attorney And Exclusive Prosecution Hereafter By Assignee Under 37 C.F.R. §§ 1.36, 3.71 and 3.73 for the above-identified application.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

A handwritten signature in black ink, appearing to read "Bryan H. Davidson".

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Reg. No. 30,251

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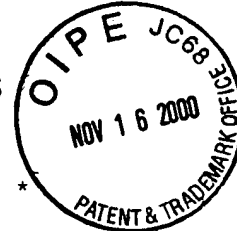
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* * * * *

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**EXCLUSIVE SUBSTITUTE POWER OF ATTORNEY
AND EXCLUSIVE PROSECUTION HEREAFTER BY
ASSIGNEE UNDER 37 C.F.R. §§ 1.36, 3.71 AND 3.73**

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The undersigned being the owner of all right, title and interest in the above-identified patent application, hereby revokes all previous powers of attorney in this case, if any, and hereby appoints Nixon & Vanderhye, P.C., 1100 North Glebe Rd., 8th Floor, Arlington, Virginia 22201-4714, telephone number (703) 816-4000, facsimile number (703) 816-4100, and the following attorneys thereof (of the same address) individually and collectively its attorneys to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith, and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr.

29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515; Raymond Y. Mah, 41426.

I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions communicated from the person, attorney, firm or other organization sending instructions to Nixon & Vanderhye on behalf of the owner.

Certificate Under 37 C.F.R. §3.73(b)


I hereby certify that ATLANTIC RESEARCH CORPORATION of 5945 Wellington Road, Gainesville, VA 20155-1699 is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors to the aforesaid assignee, a copy of the assignment being attached and/or recorded at the United States Patent Office on at reel , frame .

I have reviewed the documents in the chain of title of the patent application identified above, and to the best of my knowledge and belief, title is in the aforesaid assignee for which I am empowered to act in this matter.

I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

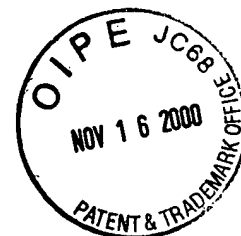
Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

ATLANTIC RESEARCH CORPORATION
(Assignee)

Nov. 1, 2000 By: 
Date Name: R. D. Lynch
Title: Director, Technology
ARE

Client Ref.: 1607-367Attorney's Docket: 2920-223

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)



WHEREAS, James D. MARTIN, Norman H. LUNDSTROM, and Robert S. SCHEFFEE, (hereinafter ASSIGNORS) of Manassas, Virginia, Manassas Virginia, and Lorton, Virginia, respectively, have invented a certain improvement PREMIXED LIQUID MONOPROPELLANT SOLUTIONS AND MIXTURES for which a so-entitled application for Letters Patent of the United States was filed in the United States Patent and Trademark Office on July 29, 1999 under Serial No. 09/363,013;

WHEREAS, ATLANTIC RESEARCH CORPORATION (hereinafter ASSIGNEE), a corporation of the State of Delaware, having an office and place of business at 5945 Wellington Road, Gainesville, Virginia 20155-1699, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all

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foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres; and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS hereby agree to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention:

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred: and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

8/8/00
Date

James D. Martin
James D. MARTIN

Witnessed by:

Elizabeth Harrison
Name:

8/14/00
Date:

7/28/00
Date

Norman H. Lundstrom
Norman H. LUNDSTROM

Witnessed by:

David S. Luhn
Name:

7/29/00
Date:

07/29/00
Date

Robert Scheffee
Robert S. SCHEFFEE

Witnessed by:

David S. Butler
Name:

7/29/00
Date: